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PATENT APPLICATION NO: 10/591,419  
ATTORNEY DOCKET NO: 65084.000020

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application Number : 10/591,419 Confirmation No.: 1422  
Applicant : FROHBERG *et al.*  
I.A. Filing Date: : March 4, 2005  
Title : METHODS FOR IDENTIFYING PROTEINS WITH STARCH  
PHOSPHORYLATING ENZYMATIC ACTIVITY  
TC/Art Unit : 1638  
Examiner: : *Unassigned*  
Docket No. : 65084.000020  
Customer No. : **21967**

**Mail Stop Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting the following Supplemental Information Disclosure Statement (IDS) for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application. Consideration of the foregoing plus the prompt return of a copy of the enclosed Form PTO/SB/08A with the Examiner's initials in the left column in accordance with M.P.E.P. § 609 are respectfully requested.

Applicants respectfully point out that the submission of the listed documents in this IDS is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this IDS is not an indication that a search has been made.

This IDS is not to be construed as a representation that a search has, or has not, been conducted. The filing of this IDS is not to be construed as admission that the information cited in the IDS is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

Applicants wish to bring to the Examiner's attention the following co-pending U.S. patent applications: U.S. Patent Application Number 10/591,428; U.S. Patent Application

Number 10/591,432; and U.S. Patent Application Number 10/591,540. An indication of consideration of the co-pending applications by the Examiner would be appreciated. Also, consideration of the foregoing plus the prompt return of a copy of the enclosed Form PTO/SB/08A with the Examiner's initials in the left column in accordance with M.P.E.P. § 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(b), this Supplemental Information Disclosure Statement is believed to be submitted within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); therefore, it is respectfully submitted that no fee is required for consideration of this information. However, in the event a fee is deemed necessary, the Director is authorized to charge the undersigned's **Deposit Account No. 50-0206** pursuant to 37 C.F.R. § 1.17(p).

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: 11/9/06

By:

  
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RMS/CJN:cdh



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

4

Application Number

10/591,419

Filing Date

March 4, 2005

First Named Inventor

Claus FROHBERG

Art Unit

1638

Examiner Name

Unassigned

Attorney Docket Number 65084.000020

**FOREIGN PATENT DOCUMENTS**

*Examiner Initial	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code:	Number - Kind Code (if known)				YES	NO
	1.	WO	96/27674	09-12-1996	Institut Fur Genbiologische Forschung Berlin GmbH		<input type="checkbox"/>	<input type="checkbox"/>
	2.	WO	97/11188	03-27-1997	Planttec Biotechnologies GmbH		<input type="checkbox"/>	<input type="checkbox"/>
	3.	WO	00/77229	12-21-2000	Aventis Cropscience GmbH		<input type="checkbox"/>	<input type="checkbox"/>
	4.	WO	02/10210 A2	02-07-2002	Bayer Aktiengesellschaft		<input type="checkbox"/>	<input type="checkbox"/>
	5.	WO	02/22675 A2	03-21-2002	Syngenta Participations AG <i>et al.</i>		<input type="checkbox"/>	<input type="checkbox"/>
	6.	WO	02/34923 A2	05-02-2002	Aventis Cropscience GmbH		<input type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO				<b>Application Number</b>	<b>10/591,419</b>
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Filing Date</b>	<b>March 4, 2005</b>
				<b>First Named Inventor</b>	<b>Claus FROHBERG</b>
				<b>Art Unit</b>	<b>1638</b>
				<b>Examiner Name</b>	<b>Unassigned</b>
<b>Sheet</b>	<b>2</b>	<b>of</b>	<b>4</b>	<b>Attorney Docket Number</b>	<b>65084.000020</b>

**OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
	7.	Alonso et al. (August 1, 2003) "Genome-Wide Insertional Mutagenesis of <i>Arabidopsis thaliana</i> " <u>Science</u> 301: 653 - 657	<input type="checkbox"/>	<input type="checkbox"/>
	8.	Baunsgaard et al. (2005) "A novel Isoform of Glucan, Water Dikinase Phosphorylates Pre-Phosphorylated $\alpha$ -glucans and is Involved in Starch Degradation in <i>Arabidopsis</i> ." <u>The Plant Journal</u> 41: 595 - 605	<input type="checkbox"/>	<input type="checkbox"/>
	9.	Blennow et al. (October 2002) "Starch phosphorylation: a new front line in starch research." <u>Trends in Plant Science</u> 7(10): 445 - 450	<input type="checkbox"/>	<input type="checkbox"/>
	10.	GenPept Accession No. B29959 (June 18, 1999)	<input type="checkbox"/>	<input type="checkbox"/>
	11.	GenPept Accession No. S01446 (July 21, 2000)	<input type="checkbox"/>	<input type="checkbox"/>
	12.	GenBank Accession No. Y09533 (July 22, 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	13.	GenBank Accession No. AY027522 (February 26, 2001)	<input type="checkbox"/>	<input type="checkbox"/>
	14.	GenPept Accession No. AAN93923 (December 20, 2002)	<input type="checkbox"/>	<input type="checkbox"/>
	15.	GenPept Accession No. AR236165 (December 20, 2002)	<input type="checkbox"/>	<input type="checkbox"/>
	16.	GenBank Accession No. AR400813 (December 18, 2003)	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
	17.	GenPept Accession No. AAR61444 (December 18, 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	18.	GenBank Accession No. AR400184 (December 18, 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	19.	GenPept Accession No. AAR61445 (December 18, 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	20.	GenBank Accession No. AR400815 (December 18, 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	21.	GenPept Accession No. AAR61446 (December 18, 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	22.	GenBank Accession No. AY094062 (July 23, 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	23.	GenBank Accession No. AF312027 (August 24, 2001)	<input type="checkbox"/>	<input type="checkbox"/>
	24.	GenBank Accession No. AY747068 (March 1, 2005)	<input type="checkbox"/>	<input type="checkbox"/>
	25.	Ritte et al. (2000) "Compartmentation of the Starch-Related R1 Protein in Higher Plants." <u>Starch/Stärke</u> 52: 179 - 185	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
	26.	Sitohy et al. (2000) "Optimizing the Conditions for Starch Dry Phosphorylation with Sodium Mono-and Dihydrogen Orthophosphate under Heat and Vacuum." <u>Starch/Stärke</u> <b>52</b> (4): 95 - 100	<input type="checkbox"/>	<input type="checkbox"/>
	27.	UniProtKB/Swiss-Prot entry Q6ZY51 (June 13, 2006)	<input type="checkbox"/>	<input type="checkbox"/>
	28.	UniProtKB/TrEMBL entry Q84T18; Sucrose Synthase; June 1, 2003; XP002361889	<input type="checkbox"/>	<input type="checkbox"/>
	29.	Yu et. al. (August 2001) "The Arabidopsis <i>sex1</i> Mutant is Defective in the R1 Protein, a General Regulator of Starch Degradation in Plants, and Not in the Chloroplast Hexose Transporter." <u>The Plant Cell</u> <b>13</b> : 1907 - 1918	<input type="checkbox"/>	<input type="checkbox"/>

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